

# A Contribution to the Flora of Gangolihat Block in Pithoragarh District

BY

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## CAMPANULACEAE

**Campanula colorata** Wall. ex Roxb.

Herb with pale lilac flowers. Gangolihat, 2000 m (423).

## ERICACEAE

**Lyonia ovalifolia** (Wall.) Drude (Loc. Yaanr).

Small tree with white flowers. Daula hill, 2000 m (5146).

**Rhododendron arboreum** Smith (Loc. Kafoo, Buronj).

Small tree with red flowers. Daula hill, 2000 m (5066).

## PRIMULACEAE

**Androsace umbellata** (Lour.) Merr.

Herb with pink flowers. Mallagarkha, 1660 m (5058).

**A. rotundifolia** Hard.

Herb with deep pink flowers. Daula hill, 2230 m (5161).

**Lysamachia lobelioides** Wall.

Herb with pale purple flowers. Mallagarkha, 1660 m (5156).

**Anagallis arvensis** L.

Herb with bright blue flowers. Mallagarkha, 1660 m (5062).

## MYRSINACEAE

**Myrsine africana** L. (Loc. Karyont)

Small shrub with dark red flowers. Daula hill, 2230 m (5126).

## SAPOTACEAE

**Diploknema butyracea** (Roxb.) H. J. Lamb (Loc. Ghayus)

Large deciduous tree with cream-coloured flowers. Mallagarkha, 1660 m (5128).

## OLEACEAE

**Jasminum dispernum** Wall.

Climbing shrub with fragrant white flowers. Gangolihat, 2000 m (5434).

**J. grandiflorum** L.

Climbing shrub with white flowers. Mallagarkha, 2000 m (5365).

**Osmanthus fragans** Lour. (Loc. Shilang)

Evergreen tree with very fragrant pale yellow flowers (planted). Daula hill, 2200 m (5374).

## APOCYNACEAE

**Carissa spinarum** DC.

Spinous shrub with white flowers. Mallagarkha, 1660 m (5077).

**Nerium indicum** Mill. (Loc. Kaner)

Shrub with fragrant pink flowers (planted). Gangolihat, 2000 m (5227).

## GENTIANACEAE

**Gentiana argentea** Royle

Herb with blue flowers. Nandan hill, 2330 m (5087).

**G. capitata** Buch.-Ham.

Herb with blue flowers. Goptari, 2000 m (5455).

**Swertia paniculata** Wall.

Herb with white flowers having purple blotches at the base. Mallagarkha, 1660 m (5387).

**S. alata** Royle

Herb with greenish-yellow flowers. Gangolihat, 2000 m (5440).

**S. angustifolia** Buch.-Ham.

Herb with white flowers having purple dots. Mallagarkha, 1660 m (5323).

BORAGINACEAE

**Cynoglossum zeylanicum** (Wall.) Thunb.

Herb with pale blue flowers. Gangolihat, 2000 m (5293).

CONVOLVULACEAE

**Ipomoea nil** (L.) Roth

Climbing herb with pale blue flowers. Gangolihat, 2000 m (5338).

**I. purpurea** Roth

Climbing herb with pink flowers. Mallagarkha, 1660 m (5364).

**Evolvulus nummularius** L.

Creeping herb with white flowers. Mallagarkha, 1660 m (5398).

**Cuscuta reflexa** Roxb. (Loc. Amar bale)

Leafless parasitic herb with white flowers. Gangolihat, 2000 m (5359).

SOLANACEAE

**Solanum nigrum** L.

Herb with white flowers. Mallagarkha, 1660 m (5289).

**S. indicum** L.

Herb with blue flowers. Pali, 1200 m (5171).

**S. surattense** Burm. f.

Prickly herb with blue flowers. Mallagarkha, 1600 m (5173).

**Physalis minima** L. (Loc. Nununi)

Herb with yellow flowers. Mallagarkha, 1660 m (5294).

**Nicandra physaloides** Gaertn.

Herb with pale purple flowers. Gangolihat, 2000 m (5348).

**Datura stramonium** L. (Loc. Dhatura)

Herb with white flowers. Gangolihat, 2000 m (5346).

**D. suaveolens** H. B. & K. ex Willd.

Herb with white flowers. Gangolihat, 2000 m (5193).

**Cestrum nocturnum** L. (Loc. Rat-ki-Rani)

Shrub with greenish-yellow flowers (planted). Gangolihat, 2000 m (5238).

## SCROPHULARIACEAE

**Verbascum thapsus** L.

Pubescent herb with yellow flowers. Goptari, 2000 m (5102).

**Antirrhinum orontium** L.

Herb with pale pink flowers. Mallagarkha, 1660 m (5013).

**Scrophularia himalensis** Royle

Herb with greenish-purple flowers. Gangolihat, 2000 m (5413).

**Mazus pumilus** (Burm. f.) Steenis

Herb with pale blue or white flowers. Mallagarkha, 1660 m (5011).

**Lindenbergia grandiflora** Benth.

Rambling herb with bright yellow flowers. Daula hill, 2230 m (5383).

**L. indica** (L.) O. Kuntze

Herb with yellow flowers. Mallagarkha, 1660 m (5254).

**Torenia cordifolia** Roxb.

Herb with bluish-purple flowers. Goptari, 2000 m (5274).

**Lindernia crustacea** (L.) F. V. Muell.

Herb with pale purple flowers. Gangolihat, 2000 m (5431).

**L. nummularifolia** (D. Don) Wettst.

Herb with purple-red flowers. Gangolihat, 2000 m (5445).

**Veronica anagallis-aquatica** L.

Succulent herb with white flowers. Mallagarkha, 1660 m (5052).

**Striga lutea** Lour.

Herb with violet flowers. Goptari, 2000 m (5453).

**Pedicularis carnosus** Wall.

Herb with purple-pink flowers. Daula hill, 2000 m (5283).

## OROBANCHACEAE

**Orobanche epithymum** DC.

Herb with reddish-brown flowers. Mallagarkha, 1660 m (5054).

## GESNERACEAE

**Rhynchoglossum obliquum** Blume

Succulent herb with white flowers. Gangolihat, 2000 m (5363).

BIGNONIACEAE

**Tecomaria capensis** (Thunb.) Spach.

Scandent shrub with orange-red flowers (planted). Gangolihat, 2000 m (5165).

PEDALIACEAE

**Sesamum indicum** DC. (Loc. Til)

Herb with purple-pink flowers. Gangolihat, 2000 m (5299).

ACANTHACEAE

**Pseudaechmanthera glutinosa** (Nees) Brem.

Shrub with pale blue flowers. Mallagarkha, 1660 m (5034).

**Goldfussia dalhousiana** Nees

Shrub with dark blue flowers. Daula hill, 2230 m (5279).

**Barleria cristata** L.

Herb with lilac flowers. Daula hill, 2230 m (5100).

**Justicia diffusa** Willd.

Herb with pink flowers. Mallagarkha, 1660 m (5266).

**Adhatoda vasica** Nees (Loc. Basing)

Evergreen shrub with white flowers. Mallagarkha, 1660 m (5070).

**Rungia pectinata** (L.) Nees

Herb with bluish-white flowers. Mallagarkha, 1660 m (5324).

**Dicliptera bupleuroides** Nees

Herb with pink flowers. Mallagarkha, 1660 m (5045).

VERBENACEAE

**Lantana indica** Roxb.

Shrub with yellow or orange flowers. Mallagarkha, 1660 m (5197).

**Clerodendrum japonicum** (Thunb.) Sweet

Shrub with purplish-white flowers. Gangolihat, 2000 m (5218).

**Caryopteris wallichiana** Schauer

Shrub with bluish-white flowers. Bhruntam hill, 2660 m (5159).

## LABIATAE (LAMIACEAE)

**Plectranthus gerardianus** Benth.

Undershrub with purplish-white flowers. Daula hill, 2230 m (5377).

**P. striatus** Benth.

Herb with white flowers. Gangolihat, 2000 m (5285).

**P. japonicus** (Burm. f.) Koidz

Undershrub with lavender-blue flowers. Gangolihat, 2000 m (5433).

**P. mollis** (Ait.) Spreng.

Herb with pale lavender-blue flowers. Mallagarkha, 1660 m (5349).

**Pogostemon benghalensis** (Burm. f.) O. Ktze.

Aromatic shrub with pinkish-white flowers. Mallagarkha, 1660 m (5288).

**Colebrookea oppositifolia** Sm.

Tomentose shrub with white flowers. Mallagarkha, 1660 m (5071).

**Elsholtzia flava** Benth.

Herb with white flowers. Gangolihat, 2000 m (5352).

**E. fruticosa** (D. Don) Rehder

Shrub with white flowers. Bhuvaneshwar, 2300 m (5397).

**E. stachyodia** (Link) Raiz. & Sax.

Herb with white flowers. Gangolihat, 2000 m (5395).

**E. strobilifera** Benth.

Herb with pale purple flowers. Gangolihat, 2000 m (5412).

**Perilla frutescens** (L.) Britt. (Loc. Bhaungir)

Aromatic herb with white flowers. Mallagarkha, 1660 m (5457).

**Mentha spicata** L. (Loc. Pudina)

Herb with lilac flowers. Mallagarkha, 1660 m (5308).

**Origanum vulgare** L.

Herb with pink flowers. Gangolihat, 2000 m (5357).

**Micromeria biflora** Benth.

Herb with pink flowers. Nandan hill, 2330 m (5007).

**Calamintha umbrosa** Benth.

Herb with lilac flowers. Mallagarkha, 1660 m (5001).

**Salvia leucantha** Cav.

Undershrub with white flowers. Gangolihat, 2000 m (5302).

**Nepeta leucophylla** Benth.

Herb with lilac flowers. Mallagarkha, 1660 m (5039).

**Scutellaria prostrata** Jacq.

Herb with pale purple flowers. Mallagarkha, 1660 m (5051).

**S. discolor** Colebr.

Herb with pale purple flowers. Gangolihat, 2000 m (5300).

**Craniotome versicolor** Reich.

Herb with pink flowers. Gangolihat, 2000 m (5450).

**Stachys sericea** Wall.

Herb with pink flowers. Jeebal, 2000 m (5116).

**Lamium amplexicaule** L.

Herb with purplish-red flowers. Mallagarkha, 1660 m (5027).

**Roylea calycina** (Roxb.) Briq.

Herb with pinkish-white flowers. Daula hill, 2230 m (5028).

**Leucas lanata** Benth.

Woolly herb with white flowers. Mallagarkha, 1660 m (5249).

**L. cephalotes** Spreng.

Herb with white flowers. Mallagarkha, 1660 m (5214).

**Teucrium quadrifarium** Buch.-Ham.

Herb with pink or purple flowers. Goptari, 2200 m (5422).

**Ajuga bracteosa** Wall.

Herb with pale blue flowers. Mallagarkha, 1660 m (5032).

**A. parviflora** Benth.

Herb with bluish flowers. Mallagarkha, 1660 m (5003).

PLANTAGINACEAE

**Plantago tibetica** Hk. f. & Thoms.

Stemless herb with green flowers. Mallagarkha, 1660 m (5113).



## NYCTAGINACEAE

**Mirabilis jalapa** L. (Loc. Bhooyi)

Herb with white, yellow or crimson flowers (naturalized). Mallagarkha, 1660 m (5359).

## AMARANTHACEAE

**Amaranthus spinosus** L.

Spiny herb with yellow-green flowers. Mallagarkha, 1660 m (5340).

**A. hybridus** L. subsp. **cruentus** Thell. var. **paniculatus** Thell. (Loc. Chu).

Herb with reddish-green flowers. Goptari, 2000 m (5317).

**Cyathula tomentosa** Moq.

Straggling undershrub with shining white flowers. Mallagarkha, 1660 m (5320).

**Achyranthes bidentata** Blume

Straggling undershrub with dull-green flowers. Mallagarkha, 1660 m (5280).

**Alternanthera sessilis** (L.) DC.

Prostrate herb with shining white flowers. Mallagarkha, 1660 m (5318).

**Gomphrena celosioides** Mart.

Herb with white flowers. Pali, 1400 m (5219).

## CHENOPODIACEAE

**Chenopodium album** L. (Loc. Bathua)

Herb with green flowers. Mallagarkha, 1660 m (5080).

**C. ambrosioides** L.

Aromatic herb with green flowers. Gangolihat, 2000 m (5344).

## POLYGONACEAE

**Polygonum plebejum** R.Br.

Prostrate herb with pale pink flowers. Mallagarkha, 1660 m (5134).



**P. hydropiper** L. subsp. **microcarpum** Danser var. **lenticularis** Danser  
Herb with pink flowers. Mallagarkha, 1660 m (5016).

**P. nepalense** Meissn.

Herb with pinkish flowers in globose heads. Goptari, 2000 m (5006).

**Fagopyrum cymosum** Meissn. (Loc. Jangli Ugai)

Herb with pinkish-white flowers. Gangolihat, 2000 m (5209).

**Rumex nepalensis** Spreng.

Herb with greenish flowers. Mallagarkha, 1660 m (5250).

**R. hastatus** Don

Herb with pink flowers. Mallagarkha, 1700 m (5037).

#### PIPERACEAE

**Peperomia reflexa** A.Dietr.

Succulent herb with green flowers. Nandan hill, 2330 m (5068).

#### LAURACEAE

**Cinnamomum tamala** Nees & Eberm. (Loc. Keepari)

Evergreen tree with white flowers. Nandan hill, 2000 m (5107).

#### LORANTHACEAE

**Taxillus vestitus** (Wall.) Danser (Loc. Vana)

Semiparasitic shrub with brown tomentose flowers. Goptari, 2000 m (5175).

**Korthalsella opuntia** (Thunb.) Merr.

A green leafless plant forming nearly erect tufts on *Quercus incana*. Goptari, 2230 m (5336).

**Viscum nepalense** Spreng.

A green leafless plant forming pendulous tufts on *Quercus incana*. Bhrugtam hill, 2660 m (5174).

**V. album** L.

A yellow green, erect, tufted, leafy parasitic plant on *Quercus incana*. Gangolihat, 2000 m (5405).

## SANTALACEAE

***Osyris wightiana* Wall. ex Wight**

Small evergreen tree with yellow flowers. Bhuvaneshwar, 2300 m (5065, 5385).

## EUPHORBIACEAE

***Euphorbia hypericifolia* L.**

Herb with minute involucre. Bhrugtam hill, 2660 m (5291).

***E. royleana* Boiss. (Loc. Shyun)**

Cactus-like shrub with yellow involucre. Mallagarkha, 1660 m (5386).

***E. helioscopia* L.**

Herb with 4-toothed yellow involucre. Mallagarkha, 1660 m (5099).

***E. hirta* L.**

Herb with pinkish-green involucre. Mallagarkha, 1660 m (5255).

***E. geniculata* Muell.-Orteg.**

Herb with yellowish-green involucre. Mallagarkha, 1660 m (5239).

***Emblica officinalis* Gaertn. (Loc. Aoula)**

Small tree with yellowish-green flowers (cultivated). Gangolihat, 2000 m (5097).

***Phyllanthus urinaria* L.**

Herb with yellowish-green flowers. Mallagarkha, 1660 m (5275).

***P. parvifolius* Buch.-Ham.**

Half-prostrate shrub with purple-brown flowers. Gangolihat, 2000 m (5356).

***Ricinus communis* L.**

Tall shrub with green flowers. Mallagarkha, 1700 m (5328).

***Acalypha brachystachya* Hornem.**

Straggling herb with pale green flowers. Mallagarkha, 1660 m (5298).

***Sapium insigne* Trimen (Loc. Khini)**

Small tree with yellow flowers. Mallagarkha, 1660 m (5120).

**Excoecaria acerifolia** F. Dieder.

Tree with yellow flowers. Gangolihat, 2000 m (5353).

CANNABINACEAE

**Cannabis sativa** L. (Loc. Bhang)

Tall herb with pale yellow flowers. Mallagarkha, 1700 m (5050, 5061).

URTICACEAE

**Urtica parviflora** Roxb. (Loc. Sin)

Stinging herb with green flowers. Mallagarkha, 1660 m (5341).

**Girardiana palmata** (Forsk.) Gaud. (Bhansi-sin)

Herb with green flowers. Mallagarkha, 1660 m (5316).

**Pilea scripta** Wedd.

Herb with minute green flowers. Mallagarkha, 1660 m (5339).

**Boehmeria platyphylla** Don (Loc. Garpat)

Shrub with nearly white flowers. Mallagarkha, 1660 m (5304).

**Pouzolzia zeylanica** (L.) Benn.

Herb with green flowers. Mallagarkha, 1660 m (5267).

**Debregeasia hypoleuca** Wedd. (Loc. Tysyar)

Pubescent shrub with whitish flowers. Daula hill, 2230 m (5399).

MORACEAE

**Ficus religiosa** L. (Loc. Pipal)

Large deciduous tree with sessile depressed figs. Pali, 1200 m (5287).

**F. clavata** Wall.

Shrub with solitary ovoid figs. Mallagarkha, 1660 m (5278).

**F. hispida** L.f. (Loc. Timue)

Small tree with clustered globose figs. Mallagarkha, 1660 m (5208).

**F. semicordata** Buch.-Ham. ex J.E. Smith (Loc. Khinm.)

Small tree with globose figs. Mallagarkha, 1660 m (5118).

**F. palmata** Forsk. (Loc. Beru)

Shrub or small tree with edible figs. Mallagarkha, 1700 m (5117).

**F. glomerata** Roxb. (Loc. Umar)

Tall tree with pyriform figs. Mallagarkha, 1660 m (5207).

## JUGLANDACEAE

**Juglans regia** L. (Loc. Akhrot)

Large tree with green flowers (cultivated). Gangolihat, 2000 m (5170).

## MYRICACEAE

**Myrica nagi** Thunb. (Loc. Kaiphal)

Small dioecious tree with fleshy red drupes. Daula hill, 2500 m (5114).

## BETULACEAE

**Alnus nepalensis** D. Don (Loc. Utees)

A large tree with male drooping catkins. Daula hill, 2230 m (5382).

## FAGACEAE

**Quercus lanuginosa** Don (Loc. Lato)

Goptari, 2500 m (5144).

**Q. incana** Roxb. (Loc. Banjh)

Daula hill, 1700 m (5046).

**Q. glauca** Thunb. (Loc. Kautounj)

Gangolihat, 2000 m (5236).

## SALICACEAE

**Salix wallichiana** Anders. (Loc. Phabs)

Small tree. Daula hill, 2230 m (5106).

**S. babylonica** L.

Small tree with drooping branches. Rayeagar, 2000 m (5067).

## GYMNOSPERMS

## PINACEAE

**Pinus roxburghii** Sarg. (Loc. Chil)

A tall tree, common throughout the area from 1000-1700 m (5350).

**Cedrus deodara** Loud. (Loc. Deodar)

A large handsome tree with horizontal branches, forming pure communities between 1700-2700 m particularly on northern slopes. (5392).

MONOCOTYLEDONS

ORCHIDACEAE

**Microstylis wallichii** Lindl.

Terrestrial herb with purplish-green flowers. Goptari, 2000 m (5411).

**Dendrobium alpestre** Royle

Epiphytic herb with reddish-white flowers. Goptari, 2200 m (5463).

**D. amoenum** Wall.

Epiphytic herb with purplish-white flowers. Daula hill, 2230 m (5131).

**Eria alba** Lindl.

Terrestrial herb with fragrant white flowers. Daula hill, 2230 m (5243).

**Coelogyne cristata** Lindl.

Terrestrial herb with purplish-white flowers. Daula hill, 2230 m (5149).

**Pholidota articulata** Lindl. var. **griffithii** K. & P.

Epiphytic herb with white flowers. Daula hill, 2230 m (5109).

**Cymbidium giganteum** Wall.

Epiphytic herb with brownish-red flowers. Daula hill, 2230 m (5179).

**Vanda cristata** Lindl.

Epiphytic herb with yellowish-green flowers. Bhrugetam hill, 2200 m (5115).

**Habenaria edgeworthii** Hook.

Terrestrial herb with greenish-yellow flowers. Bhuvaneshwar, 2230 m (5384).

**Herminium angustifolium** Benth.

Terrestrial herb with small green flowers. Bhuvaneshwar, 2500 m (5409).

**Satyrrium nepalense** Don

Terrestrial herb with fragrant pink flowers. Bhuvaneshwar, 2300 m (5406).

## ZINGIBERACEAE

**Roscoea purpurea** Wall.

Robust herb with dark purple flowers. Daula hill, 2230 m (5371).

**Cautleya spicata** Baker (Loc. Van haldi)

Herb with yellow flowers. Bhuvaneshwar, 2700 m (5372).

## HAEMODORACEAE

**Mondo intermedium** (Don) Bailey

Tufted herb with white flowers. Bhrugtam hill, 2600 m (5180).

## IRIDACEAE

**Iris** sp.

Perennial herb with purplish flowers. Goptari, 2000 m (5347).

## AMARYLLIDACEAE

**Hypoxis aurea** Lour.

Stemless herb with yellow flowers. Daula hill, 2230 m (5154).

## AGAVACEAE

**Agave wightii** Dr. & Prain (Loc. Rambans)

Perennial herb with rosette of ensiform leaves. Mallagarkha, 1660 m (5314).

## DIOSCOREACEAE

**Dioscorea sativa** L. (Loc. Geeti)

A climber with stem bearing numerous tubers. Mallagarkha, 1660 m (5345, 5393).

**D. glabra** Roxb.

Climbing herb. Mallagarkha, 1660 m (5313, 5390).

LILIACEAE

**Smilax aspera** L.

Prickly climbing shrub with white flowers. Goptari, 2000 m (5362).

**Polygonatum multiflorum** All.

Herb with greenish-white drooping flowers. Daula hill, 2230 m (5158).

**Asparagus filicinus** Buch.-Ham.

An unarmed climbing shrub. Nandan hill, 2330 m (5192).

**A. adscendens** Roxb.

A straggling prickly shrub. Nandan hill, 2300 m (5149).

PONTEDERIACEAE

**Monochoria vaginalis** Presl.

Marshy herb with blue flowers. Mallagarkha, 1660 m (5319).

COMMELINACEAE

**Commelina diffusa** Burm. f.

Diffuse herb with dark blue flowers. Mallagarkha, 1660 m (5372).

**Cyanotis cristata** (L.) D. Don

Decumbent herb with blue flowers. Mallagarkha, 1660 m (5335).

JUNCACEAE

**Juncus bufonius** L.

Tufted herb with green flowers. Mallagarkha, 1660 m (5040).

PALMAE (ARECACEAE)

**Phoenix sylvestris** Roxb. (Loc. Thakav)

A tall graceful palm. Mallagarkha, 1660 m (5205).

ARACEAE

**Arisaema helliborifolium** Schott.

Herb with two pedately compound leaves. Mallagarkha, 1660 m (5190).



- A. consanguineum** Schott. (Loc. Shial Ghoge)  
Herb with a solitary leaf. Goptari, 2000 m (5330).

## CYPERACEAE

- Cyperus brevifolius** (Rottb.) Hassk.  
A sedge with green spikelets. Mallagarkha 1660 m (5239).
- C. paniceus** (Rottb.) Boeck.  
A sedge with green spikelets. Mallagarkha, 1660 m (5256).
- C. distans** L.f.  
A sedge with dark brown spikelets. Mallagarkha, 1500 m (5302).

## GRAMINEAE (POACEAE)

- Panicum plicatum** Lamk. (Loc. Ganyar)  
An erect or ascending grass. Mallagarkha, 1660 m (5212).
- Setaria glauca** Beauv.  
Annual grass with pale brown spikelets. Mallagarkha, 1660 m (5250).
- Coix lachryma-jobi** L.  
Erect annual grass. Mallagarkha, 1660 m (5303).
- Erianthus fulvus** Nees  
Tall grass with greyish-white silky panicles. Mallagarkha, 1660 m (5438).
- Alopecurus geniculatus** L.  
Decumbent herb with yellowish-green spikelets. Mallagarkha, 1660 m (5005).
- Themeda triandra** Forsk.  
Perennial grass with reddish-brown spikelets. Mallagarkha, 1660 m (5312).
- Agrostis alba** L.  
Tufted grass with pale-green spikelets. Mallagarkha, 1660 m (5437).
- Sorghum halepense** (L.) Pers.  
Tall grass with purplish spikelets. Mallagarkha, 1660 m (5354).

**Tripogon abyssinicus** Nees

A perennial tufted grass. Mallagarkha, 1660 m (5402).

**Phragmites communis** Trin.

Tall grass with purplish-brown panicles. Daula hill, 2000 m (5059).

**Neyraudia madagascariensis** Hk.

Tall grass with shining purplish-brown panicles. Mallagarkha, 1660 m (5321).

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